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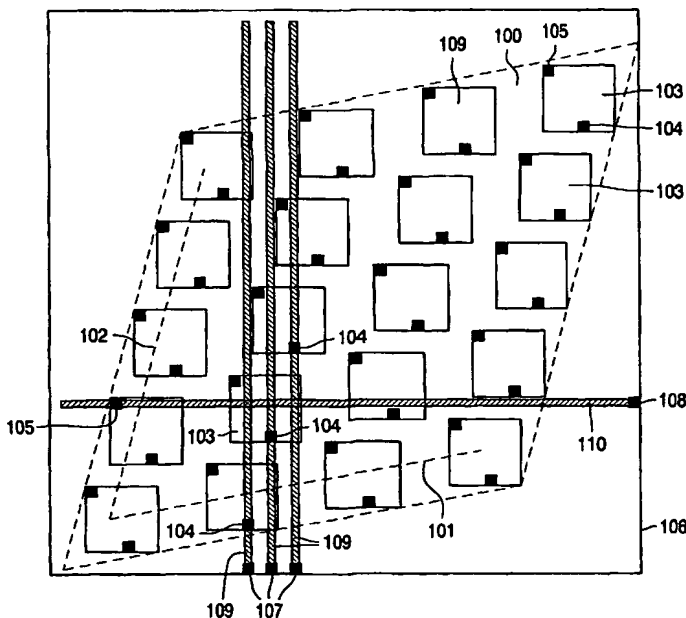
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(54) Title: DEVICE FOR PARALLEL DATA PROCESSING AS WELL AS A CAMERA SYSTEM COMPRISING SUCH A DEVICE



(57) **Abstract:** The invention relates to a device for parallel data processing, a DSP. The device according to the invention comprises a processor matrix (100) in which processors (103) are arranged in rows (101) and columns (102). Furthermore, the device (100) comprises first and second external data ports (107, 108). The rows (101) arranged in a stepwise manner and the columns are arranged in a stepwise manner. The processors (103) have a first processor data port (104), which is connected with one of the first external data ports (107) by means of first essentially straight connection. The processors (103) further comprise a second processor data port (105), which is connected with one of the second external data ports (108) by means of an essentially straight second connection (110). The first connection (107) and the second connection (108) are oriented substantially orthogonal to each other. A problem associated with conventional DSPs is that the connections to and from the processors within the DSP take up large amounts of silicon area. By arranging both rows and columns of the DSP according to the invention in a stepwise manner the connections may be essentially straight, thus minimizing their lengths and thus the surface area occupied.

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